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L4	30	3 and different adj2 format	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/29 09:07
L5	35	1 and different adj2 format	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/29 09:07
L6	35	5 and search adj engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/29 09:07

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1 Experiences with selecting search engines using metasearch

Daniel Dreilinger, Adele E. Howe

July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(428.65 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Search engines are among the most useful and high-profile resources on the Internet. The problem of finding information on the Internet has been replaced with the problem of knowing where search engines are, what they are designed to retrieve, and how to use them. This article describes and evaluates SavvySearch, a metasearch engine designed to intelligently select and interface with multiple remote search engines. The primary metasearch issue examined is the importance of carefully selecti ...

Keywords: WWW, information retrieval, machine learning, search engine

2 SDLIP + STARTS = SDARTS a protocol and toolkit for metasearching

Noah Green, Panagiotis G. Ipeirotis, Luis Gravano

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**

Publisher: ACM Press

Full text available: pdf(301.52 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe how we combined SDLIP and STARTS, two comple mentary protocols for searching over distributed document collections. The resulting protocol, which we call SDARTS, is simple yet expressible enough to enable building sophisticated metasearch engines. SDARTS can be viewed as an instantiation of SDLIP with metasearch-specific elements from STARTS. We also report on our experience building three SDARTS-compliant wrappers: for locally available plain-text document collect ...

3 Predicate rewriting for translating Boolean queries in a heterogeneous information system

Chen-Chuan K. Chang, Héctor Garcia-Molina, Andreas Paepcke

January 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(350.96 KB) terms

Searching over heterogeneous information sources is difficult in part because of the nonuniform query languages. Our approach is to allow users to compose Boolean queries in one rich front-end language. For each user query and target source, we transform the user query into a subsuming query that can be supported by the source but that may return extra documents. The results are then processed by a filter query to yield the correct final results. In this article we introduce the architectur ...

Keywords: Boolean queries, content-based retrieval, filtering, predicate rewriting, query subsumption, query translation

4 STARTS: Stanford proposal for Internet meta-searching

Luis Gravano, Chen-Chuan K. Chang, Héctor García-Molina, Andreas Paepcke
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2
Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

Document sources are available everywhere, both within the internal networks of organizations and on the Internet. Even individual organizations use search engines from different vendors to index their internal document collections. These search engines are typically incompatible in that they support different query models and interfaces, they do not return enough information with the query results for adequate merging of the results, and finally, in that they do not export metadata about t ...

5 Summary in context: Searching versus browsing

Daniel M. McDonald, Hsinchun Chen
January 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(530.99 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: Summarization, browse, generic summaries, indicative summaries, information seeking, natural language processing, search, text processing

6 Digital libraries for spatial data: The ADEPT digital library architecture

Greg Janée, James Frew
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**
Publisher: ACM Press

Full text available: pdf(263.61 KB) Additional Information: full citation, abstract, references, citings, index terms

The Alexandria Digital Earth ProtoType (ADEPT) architecture is a framework for building distributed digital libraries of georeferenced information. An ADEPT system comprises one or more autonomous libraries, each of which provides a uniform interface to one or more collections, each of which manages metadata for one or more items. The primary standard

on which the architecture is based is the ADEPT bucket framework, which defines uniform client-level metadata query services that are compatible w ...

Keywords: bucket framework, collection discovery, distribution, interoperability, metadata

7 Session 1: Leveraging semantic technologies for enterprise search
Gianluca Demartini
November 2007 **Proceedings of the ACM first Ph.D. workshop in CIKM PIKM '07**
Publisher: ACM
Full text available: pdf(184.47 KB) Additional Information: full citation, abstract, references, index terms

Enterprise search is very different from Web search (for example in the link structure or in the user's needs and goal)and some steps have been already done to exploit these differences in order to improve the effectiveness of enterprise search. In this paper we present the state of the art of the enterprise search field with some open issues. We also present a research plan that aims at using Information Retrieval, Semantic Web, and User Modelling techniques to cope with these issues improvi ...

Keywords: enterprise search, evaluation, expert search, personalization

8 Early user---system interaction for database selection in massive domain-specific online environments
Jack G. Conrad, Joanne R. S. Claussen
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(845.54 KB) Additional Information: full citation, abstract, references, index terms

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

9 Summarization and question answering: Using librarian techniques in automatic text summarization for information retrieval
Min-Yen Kan, Judith L. Klavans
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**
Publisher: ACM Press
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

A current application of automatic text summarization is to provide an overview of relevant documents coming from an information retrieval (IR) system. This paper examines how Centrifuser, one such summarization system, was designed with respect to methods used in the library community. We have reviewed these librarian expert techniques to assist information seekers and codified them into eight distinct strategies. We detail how we have operationalized six of these strategies in Centrifuser by c ...

Keywords: automatic text summarization, information retrieval user interfaces, reference librarian techniques

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Chen-Chuan K. Chang, Héctor Garcia-Molina, Andreas Paepcke
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Publisher: ACM Press

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2 Experiences with selecting search engines using metasearch

Daniel Dreilinger, Adele E. Howe
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Publisher: ACM Press

Full text available: pdf(428.65 KB) Additional Information: full citation, abstract, references, citings, index terms, review

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Keywords: WWW, information retrieval, machine learning, search engine

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Embedding web-based statistical translation models in cross-language information retrieval

Wessel Kraaij, Jian-Yun Nie, Michel Simard

September 2003 **Computational Linguistics**, Volume 29 Issue 3

Publisher: MIT Press

Full text available: pdf(381.29 KB) Additional Information: full citation, abstract, references, citings, index terms

Although more and more language pairs are covered by machine translation (MT) services, there are still many pairs that lack translation resources. Cross-language information retrieval (CLIR) is an application that needs translation functionality of a relatively low level of sophistication, since current models for information retrieval (IR) are still based on a bag of words. The Web provides a vast resource for the automatic construction of parallel corpora that can be used to train statistical ...

5 Human-computer interaction: Analysis of user attitude and behaviour in evaluating a personalized search engine

Effie Lai-Chong Law, Tomaž Klobučar, Matic Pipan

September 2006 **Proceedings of the 13th Eurpoean conference on Cognitive ergonomics: trust and control in complex socio-technical systems ECCE '06**

Publisher: ACM Press

Full text available: pdf(508.34 KB) Additional Information: full citation, abstract, references

This paper reports an empirical work on user-based relevance evaluation of a personalized search engine (PSE). The aim of the work is threefold: To develop metrics for evaluating PSE; to study how users' trust in personalized information retrieval systems influences their relevance judgments; to identify patterns of relevance criteria applications. Our findings corroborate some of those of the previous work and reveal some new phenomena: the optimality of sample size, consistency of relevance ...

Keywords: information entropy, information retrieval, monte-carlo simulation, personalization, relevance criteria

6 STARTS: Stanford proposal for Internet meta-searching

Luis Gravano, Chen-Chuan K. Chang, Héctor García-Molina, Andreas Paepcke

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

Document sources are available everywhere, both within the internal networks of organizations and on the Internet. Even individual organizations use search engines from

different vendors to index their internal document collections. These search engines are typically incompatible in that they support different query models and interfaces, they do not return enough information with the query results for adequate merging of the results, and finally, in that they do not export metadata about t ...

7 Making MIRACLEs: Interactive translingual search for Cebuano and Hindi

Daqing He, Douglas W. Oard, Jianqiang Wang, Jun Luo, Dina Demner-Fushman, Kareem Darwish, Philip Resnik, Sanjeev Khudanpur, Michael Nossal, Michael Subotin, Anton Leuski
September 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(209.29 KB) Additional Information: full citation, abstract, references, index terms

Searching is inherently a user-centered process; people pose the questions for which machines seek answers, and ultimately people judge the degree to which retrieved documents meet their needs. Rapid development of interactive systems that use queries expressed in one language to search documents written in another poses five key challenges: (1) interaction design, (2) query formulation, (3) cross-language search, (4) construction of translated summaries, and (5) machine translation. This articl ...

Keywords: Cross-language information retrieval, Interactive information retrieval, Machine translation

8 SDLIP + STARTS = SDARTS a protocol and toolkit for metasearching

Noah Green, Panagiotis G. Ipeirotis, Luis Gravano
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**
Publisher: ACM Press
Full text available: pdf(301.52 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe how we combined SDLIP and STARTS, two comple mentary protocols for searching over distributed document collections. The resulting protocol, which we call SDARTS, is simple yet expressible enough to enable building sophisticated metasearch engines. SDARTS can be viewed as an instantiation of SDLIP with metasearch-specific elements from STARTS. We also report on our experience building three SDARTS-compliant wrappers: for locally available plain-text document collect ...

9 A mediation infrastructure for digital library services

Sergey Melnik, Hector Garcia-Molina, Andreas Paepcke
June 2000 **Proceedings of the fifth ACM conference on Digital libraries DL '00**
Publisher: ACM Press
Full text available: pdf(155.30 KB) Additional Information: full citation, abstract, references, citings, index terms

Digital library mediators allow interoperation between diverse information services. In this paper we describe a flexible and dynamic mediator infrastructure that allows mediators to be composed from a set of modules (``blades''). Each module implements a particular mediation function, such as protocol translation, query translation, or result merging. All the information used by the mediator, including the mediator logic itself, is represented by an RDF graph.We i ...

Keywords: component design, interoperability, mediator, wrapper

10 Metadata for digital libraries: architecture and design rationale

Michelle Baldonado, Chen-Chuan K. Chang, Luis Gravano, Andreas Paepcke
July 1997 **Proceedings of the second ACM international conference on Digital libraries DL '97**
Publisher: ACM Press
Full text available: pdf(1.65 MB) Additional Information: full citation, references, citings, index terms

Keywords: CORBA, InfoBus, attrabute model translation, attribute model translation, digital libraries, heterogeneity, interoperability, metadata architecture, metadata repository, proxy architecture

11 Tools and approaches for developing data-intensive Web applications: a survey
Piero Fraternali
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3
Publisher: ACM Press
Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

12 An extensible constructor tool for the rapid, interactive design of query synthesizers
Michelle Baldonado, Seth Katz, Andreas Paepcke, Chen-Chuan Chang, Hector Garcia-Molina, Terry Winograd
May 1998 **Proceedings of the third ACM conference on Digital libraries DL '98**
Publisher: ACM Press
Full text available: pdf(1.75 MB) Additional Information: full citation, references, citings, index terms

13 An analysis of XML database solutions for the management of MPEG-7 media descriptions
Utz Westermann, Wolfgang Klas
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: pdf(448.76 KB) Additional Information: full citation, abstract, references, citings, index terms, review

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

14 Searching and information extracting: Multimedia information services enabling: an architectural approach

Erik Boertjes, Willem Jonker, Jeroen Wijnands

September 2001 **Proceedings of the 2001 ACM workshops on Multimedia: multimedia information retrieval MULTIMEDIA '01**

Publisher: ACM Press

Full text available: pdf(599.94 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a scalable and extendable architecture consisting of the essential building blocks for multimedia information services. It provides building blocks for multimedia transport, storage, retrieval, filtering, and presentation, together with their interdependencies. After presenting the overall architecture, we focus in more detail on the 3-level modeling and querying of multimedia data. Emphasis is placed on the support for a wide variety of modeling and querying techniques in th ...

Keywords: information management, metadata management, multimedia search, multimedia services, platform architectures, query processing

15 Summary in context: Searching versus browsing

Daniel M. McDonald, Hsinchun Chen

January 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(530.99 KB) Additional Information: full citation, abstract, references, index terms

The use of text summaries in information-seeking research has focused on query-based summaries. Extracting content that resembles the query alone, however, ignores the greater context of the document. Such context may be central to the purpose and meaning of the document. We developed a generic, a query-based, and a hybrid summarizer, each with differing amounts of document context. The generic summarizer used a blend of discourse information and information obtained through traditional surface- ...

Keywords: Summarization, browse, generic summaries, indicative summaries, information seeking, natural language processing, search, text processing

16 Web-based specification and integration of legacy services

Ying Zou, Kostas Kontogiannis

November 2000 **Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research CASCON '00**

Publisher: IBM Press

Full text available: pdf(279.28 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the Internet, businesses of all sizes aim on applying networkwide solutions to their IT infrastructures, migrating their legacy business processes into web-based environments, and establishing their own on-line services. To facilitate process and service integration, a complete and information rich service description language, is essential for server processes to be specified and for client processes to be able to locate services that are available in Web-enabled re ...

17 Shallow NLP techniques for internet search

Alex Penev, Raymond Wong

January 2006 **Proceedings of the 29th Australasian Computer Science Conference - Volume 48 ACSC '06**

Publisher: Australian Computer Society, Inc.

Full text available: Additional Information:

pdf(422.28 KB) full citation, abstract, references, index terms

Information Retrieval (IR) is a major component in many of our daily activities, with perhaps its most prominent role manifested in search engines. Today's most advanced engines use the keyword-based ("bag of words") paradigm, which concedes some inherent disadvantages. We believe that natural language (NL) is a more user-oriented, context-preservative and intuitive mechanism for web search.In this paper, we explore shallow NLP techniques to support a range of NL queries over an existing keyword ...

Keywords: google, information retrieval, natural language, processing

18 Linguistic resource creation for research and technology development: A recent experiment

Stephanie Strassel, Mike Maxwell, Christopher Cieri

June 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(186.39 KB) Additional Information: full citation, abstract, references, citings, index terms

Advances in statistical machine learning encourage language-independent approaches to linguistic technology development. Experiments in "porting" technologies to handle new natural languages have revealed a great potential for multilingual computing, but also a frustrating lack of linguistic resources for most languages. Recent efforts to address the lack of available resources have focused either on intensive resource development for a small number of languages or development of technologies fo ...

Keywords: Cebuano, Hindi, Machine translation, crosslanguage, information extraction, information retrieval, language parsing and understanding, linguistic resources, machine translation, summarization, text analysis, translingual information access technology

19 Digital library communities and change: Cross-cultural usability of the library metaphor

Elke Duncker

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**

Publisher: ACM Press

Full text available: pdf(202.45 KB) Additional Information: full citation, abstract, references, citings, index terms

Computing metaphors have become an integral part of information systems design, yet they are deeply rooted in cultural practices. This paper presents an investigation of the cross-cultural use and usability of such metaphors by studying the library metaphor of digital libraries in the cultural context of the Maori, the indigenous population of New Zealand. The ethnographic study examines relevant features of the Maori culture, their form of knowledge transfer and their use of physical and digita ...

Keywords: computing metaphor, cross-cultural usability, digital library, globalization, indigenous culture, localization

20 Cross-language: Bootstrapping dictionaries for cross-language information retrieval

Kornél Markó, Stefan Schulz, Olena Medelyan, Udo Hahn

August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**

Publisher: ACM Press

Full text available: pdf(130.96 KB) Additional Information: full citation, abstract, references, index terms

The bottleneck for dictionary-based cross-language information retrieval is the lack of comprehensive dictionaries, in particular for many different languages. We here introduce a methodology by which multilingual dictionaries (for Spanish and Swedish) emerge automatically from simple seed lexicons. These seed lexicons are automatically generated, by cognate mapping, from (previously manually constructed) Portuguese and German as well as English sources. Lexical and semantic hypotheses are then ...

Keywords: cross-language information retrieval, lexical acquisition

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1 A mediation infrastructure for digital library services

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Publisher: ACM Press

Full text available: pdf(155.30 KB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: component design, interoperability, mediator, wrapper

2 Combinators for bidirectional tree transformations: A linguistic approach to the view-update problem

J. Nathan Foster, Michael B. Greenwald, Jonathan T. Moore, Benjamin C. Pierce, Alan Schmitt

May 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(1.06 MB) Additional Information: full citation, appendices and supplements, abstract, references, index terms

We propose a novel approach to the *view-update problem* for tree-structured data: a domain-specific programming language in which all expressions denote bidirectional transformations on trees. In one direction, these transformations---dubbed *lenses*---map a concrete tree into a simplified abstract view; in the other, they map a modified abstract view, together with the original concrete tree, to a correspondingly modified concrete tree. Our design emphasizes both robustness and ea ...

Keywords: Bidirectional programming, Harmony, XML, lenses, view update problem

3 Interview: A conversation with Pat Selinger

James Hamilton

April 2005 **Queue**, Volume 3 Issue 3

Publisher: ACM Press
Full text available: pdf(700.87 KB) html(36.14 KB) Additional Information: full citation, abstract, index terms

Leading the way to manage the world's information

4 Strategic directions in database systems—breaking out of the box

Avi Silberschatz, Stan Zdonik
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4
Publisher: ACM Press
Full text available: pdf(222.64 KB) Additional Information: full citation, references, citings, index terms

5 Database systems—breaking out of the box

Avi Silberschatz, Stan Zdonik
September 1997 **ACM SIGMOD Record**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(1.23 MB) Additional Information: full citation, citings, index terms

6 Q focus: databases: Beyond relational databases

Margo Seltzer
April 2005 **Queue**, Volume 3 Issue 3
Publisher: ACM Press
Full text available: pdf(654.63 KB) html(35.21 KB) Additional Information: full citation, abstract, references, index terms

There is more to data access than SQL.

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Relevance scale

21 Hypermedia and Graphics 2: Vector graphics: from PostScript and Flash to SVG

Steve Probets, Julius Mong, David Evans, David Brailsford

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering DocEng '01**

Publisher: ACM Press

Full text available: pdf(127.00 KB) Additional Information: full citation, abstract, references, citings, index terms

The XML-based specification for Scalable Vector Graphics(SVG), sponsored by the World Wide Web consortium, allows for compact and descriptive vector graphics for the Web.This paper describes a set of three tools for creating SVG, either from first principles or via the conversion of existing formats. The *ab initio* generation of SVG is effected from a server-side CGI script, using a PERL library of drawing functions; later sections highlight the problems of converting Adobe PostScript and ...

Keywords: Flash, PDF, PostScript, SVG, SWF

22 Supporting education: Metadata aggregation and "automated digital libraries": a retrospective on the NSDL experience

Carl Lagoze, Dean Krafft, Tim Cornwell, Naomi Dushay, Dean Eckstrom, John Saylor

June 2006 **Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries JCDL '06**

Publisher: ACM Press

Full text available: pdf(346.87 KB) Additional Information: full citation, abstract, references, index terms

Over three years ago, the Core Integration team of the National Science Digital Library (NSDL) implemented a digital library based on metadata aggregation using Dublin Core and OAI-PMH. The initial expectation was that such low-barrier technologies would be relatively easy to automate and administer. While this architectural choice permitted rapid deployment of a production NSDL, our three years of experience have contradicted our original expectations of easy automation and low people cost. We ...

Keywords: NSDL, OAI-PMH, architecture, interoperability, metadata

23 Searching on the secondary structure of protein sequences

Laurie Hammel, Jignesh M. Patel

August 2002 **Proceedings of the 28th international conference on Very Large Data Bases - Volume 28 VLDB '2002**
Publisher: VLDB Endowment
Full text available: pdf(287.29 KB) Additional Information: full citation, abstract, references, index terms

In spite of the many decades of progress in database research, surprisingly scientists in the life sciences community still struggle with inefficient and awkward tools for querying biological data sets. This work highlights a specific problem involving searching large volumes of protein data sets based on their secondary structure. In this paper we define an intuitive query language that can be used to express queries on secondary structure and develop several algorithms for evaluating these ...

24 Predicate-calculus-based logics for modeling and solving search problems
Deborah East, Miroslaw Truszczyński
January 2006 **ACM Transactions on Computational Logic (TOCL)**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: pdf(300.38 KB) Additional Information: full citation, abstract, references, index terms

The answer-set programming (ASP) paradigm is a way of using logic to solve search problems. Given a search problem, to solve it one designs a logic theory so that *models* of this theory represent problem solutions. To compute a solution to the problem, one computes a model of the theory. Several answer-set programming formalisms have been developed on the basis of logic programming with the semantics of answer sets. In this article we show that predicate logic also gives rise to effective ...

Keywords: Satisfiability, constraints, predicate logic, pseudo-Boolean constraints, search problems

25 Bioinformatics (BIO): An architecture for biological information extraction and representation
Aditya Vailaya, Peter Bluvas, Robert Kincaid, Allan Kuchinsky, Michael Creech, Annette Adler
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**
Publisher: ACM Press
Full text available: pdf(355.71 KB) Additional Information: full citation, abstract, references

Technological advances in biomedical research are generating a plethora of heterogeneous data at a high rate. There is a critical need for extraction, integration and management tools for information discovery and synthesis from these heterogeneous data. In this paper, we present a general architecture, called ALFA, for information extraction and representation from diverse biological data. The ALFA architecture consists of: (i) a networked, hierarchical object model for representing information ...

Keywords: bioinformatics, filtering, heterogeneous data, information representation, information retrieval, interactive text mining, software architecture, user-guided information extraction

26 Combinators for bidirectional tree transformations: A linguistic approach to the view-update problem
J. Nathan Foster, Michael B. Greenwald, Jonathan T. Moore, Benjamin C. Pierce, Alan Schmitt
May 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 29 Issue 3
Publisher: ACM Press
Full text available: pdf(1.06 MB) Additional Information: full citation, appendices and supplements, abstract, references, index terms

We propose a novel approach to the *view-update problem* for tree-structured data: a domain-specific programming language in which all expressions denote bidirectional transformations on trees. In one direction, these transformations---dubbed *lenses*---map a concrete tree into a simplified abstract view; in the other, they map a modified abstract view, together with the original concrete tree, to a correspondingly modified concrete tree. Our design emphasizes both robustness and ea ...

Keywords: Bidirectional programming, Harmony, XML, lenses, view update problem

27 TotalRecall: a bilingual concordance for computer assisted translation and language learning

Jian-Cheng Wu, Kevin C. Yeh, Thomas C. Chuang, Wen-Chi Shei, Jason S. Chang

July 2003 **Proceedings of the 41st Annual Meeting on Association for Computational Linguistics - Volume 2 ACL '03**

Publisher: Association for Computational Linguistics

Full text available: pdf(94.91 KB) Additional Information: full citation, abstract, references

This paper describes a Web-based English-Chinese concordance system, Total-Recall, developed to promote translation reuse and encourage authentic and idiomatic use in second language writing. We exploited and structured existing high-quality translations from the bilingual Sinorama Magazine to build the concordance of authentic text and translation. Novel approaches were taken to provide high-precision bilingual alignment on the sentence, phrase and word levels. A browser-based user interface (U ...

28 Developing regions 2: WebKhoj: Indian language IR from multiple character encodings

Prasad Pingali, Jagadeesh Jagarlamudi, Vasudeva Varma

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf(480.79 KB) Additional Information: full citation, abstract, references, index terms

Today web search engines provide the easiest way to reach information on the web. In this scenario, more than 95% of Indian language content on the web is not searchable due to multiple encodings of web pages.Most of these encodings are proprietary and hence need some kind of standardization for making the content accessible via a search engine. In this paper we present a search engine called WebKhoj which is capable of searching multi-script and multi-encoded Indian language content on the web. ...

Keywords: Indian languages, non-standard encodings, web search

29 Plagiarism detection across programming languages

Christian Arwin, S. M. M. Tahaghoghi

January 2006 **Proceedings of the 29th Australasian Computer Science Conference - Volume 48 ACSC '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(193.09 KB) Additional Information: full citation, abstract, references, index terms

Plagiarism is a widespread problem in assessment tasks; in computing courses, students often plagiarise source code. For all but the smallest classes, manual detection of such plagiarism is impractical, and, while automated tools are available, none has been applied to detect inter-lingual plagiarism, where source code is copied from one language to another. In this work, we propose a novel approach, XPlag, to detect plagiarism involving multiple languages using intermediate program code produce ...

Keywords: plagiarism detection, program source code similarity

30 Community tech: Wikifying your interface: facilitating community-based interface translation

M. Cameron Jones, Dinesh Rathi, Michael B. Twidale

June 2006 **Proceedings of the 6th conference on Designing Interactive systems DIS '06**

Publisher: ACM

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, index terms

We explore the application of a wiki-based technology and style of interaction to enabling the incremental translation of a collaborative application into a number of different languages, including variant English language interfaces better suited to the needs of particular user communities. The development work allows us to explore in more detail the design space of functionality and interfaces relating to tailoring, customization, personalization and localization, and the challenges of designi ...

Keywords: community-based technology, customization, internationalization, mash-ups, personalization, wikis

31 Propositional Satisfiability and Constraint Programming: A comparative survey

Lucas Bordeaux, Youssef Hamadi, Lintao Zhang

December 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 4

Publisher: ACM Press

Full text available: pdf(878.93 KB) Additional Information: full citation, abstract, references, index terms

Propositional Satisfiability (SAT) and Constraint Programming (CP) have developed as two relatively independent threads of research cross-fertilizing occasionally. These two approaches to problem solving have a lot in common as evidenced by similar ideas underlying the branch and prune algorithms that are most successful at solving both kinds of problems. They also exhibit differences in the way they are used to state and solve problems since SAT's approach is, in general, a black-box approach, ...

Keywords: SAT, Search, constraint satisfaction

32 Session 1: Leveraging semantic technologies for enterprise search

Gianluca Demartini

November 2007 **Proceedings of the ACM first Ph.D. workshop in CIKM PIKM '07**

Publisher: ACM

Full text available: pdf(184.47 KB) Additional Information: full citation, abstract, references, index terms

Enterprise search is very different from Web search (for example in the link structure or in the user's needs and goal)and some steps have been already done to exploit these differences in order to improve the effectiveness of enterprise search. In this paper we present the state of the art of the enterprise search field with some open issues. We also present a research plan that aims at using Information Retrieval, Semantic Web, and User Modelling techniques to cope with these issues improvi ...

Keywords: enterprise search, evaluation, expert search, personalization

33 Orthographic Errors in Web Pages: Toward Cleaner Web Corpora

Christoph Ringlstetter, Klaus U. Schulz, Stoyan Mihov

September 2006 **Computational Linguistics**, Volume 32 Issue 3
Publisher: MIT Press
Full text available: pdf(987.55 KB) Additional Information: full citation, abstract, references, index terms

Since the Web by far represents the largest public repository of natural language texts, recent experiments, methods, and tools in the area of corpus linguistics often use the Web as a corpus. For applications where high accuracy is crucial, the problem has to be faced that a non-negligible number of orthographic and grammatical errors occur in Web documents. In this article we investigate the distribution of orthographic errors of various types in Web pages. As a by-product, methods are develop ...

34 Interoperability for digital libraries worldwide

Andreas Paepcke, Chen-Chuan K. Chang, Terry Winograd, Héctor García-Molina
April 1998 **Communications of the ACM**, Volume 41 Issue 4
Publisher: ACM Press
Full text available: pdf(299.48 KB) Additional Information: full citation, references, citings, index terms

35 Virtualization and operating systems: Libra: a library operating system for a jvm in a virtualized execution environment

Glenn Ammons, Jonathan Appavoo, Maria Butrico, Dilma Da Silva, David Grove, Kiyokuni Kawachiya, Orran Krieger, Bryan Rosenburg, Eric Van Hensbergen, Robert W. Wisniewski
June 2007 **Proceedings of the 3rd international conference on Virtual execution environments VEE '07**
Publisher: ACM Press
Full text available: pdf(223.69 KB) Additional Information: full citation, abstract, references, index terms

If the operating system could be specialized for every application, many applications would run faster. For example, Java virtual machines (JVMs) provide their own threading model and memory protection, so general-purpose operating system implementations of these abstractions are redundant. However, traditional means of transforming existing systems into specialized systems are difficult to adopt because they require replacing the entire operating system. This paper describes Libra, an execut ...

Keywords: JVM, exokernels, virtualization, xen

36 Using keyphrases as search result surrogates on small screen devices

Steve Jones, Matt Jones, Shaleen Deo_andA2
February 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 1
Publisher: Springer-Verlag
Full text available: pdf(675.87 KB) Additional Information: full citation, abstract, citings, index terms

This paper investigates user interpretation of search result displays on small screen devices. Such devices present interesting design challenges given their limited display capabilities, particularly in relation to screen size. Our aim is to provide users with succinct yet useful representations of search results that allow rapid and accurate decisions to be made about the utility of result documents, yet minimize user actions (such as scrolling), the use of device resources, and the volume of ...

Keywords: Keyphrase extraction, Searching, Small screen devices, Usability evaluation

37 InfoSleuth: agent-based semantic integration of information in open and dynamic environments

R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. Kashyap, T. Ksiezyk, G. Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan, A. Unruh, D. Woelk
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2
Publisher: ACM Press

Full text available: pdf(1.69 MB) Additional Information: full citation, abstract, references, citings, index terms

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies into a unified system that retrieves and processes information in an ever-changing network of information sources. InfoSleuth has its roots in the Carnot project at MCC, which specialized in integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the types, availability, and volume of data available to a ...

38 MPEG-4: an object-based multimedia coding standard supporting mobile applications
Atul Puri, Alexandros Eleftheriadis
June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1
Publisher: Kluwer Academic Publishers

Full text available: pdf(747.80 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

39 Systems: A retrospective look at Greenstone: lessons from the first decade
Ian H. Witten, David Bainbridge
June 2007 **Proceedings of the 2007 conference on Digital libraries JCDL '07**
Publisher: ACM Press
Full text available: pdf(572.61 KB) Additional Information: full citation, abstract, references, index terms

The Greenstone Digital Library Software has helped spread the practical impact of digital library technology throughout the world, with particular emphasis on developing countries. As Greenstone enters its second decade, this article takes a retrospective look at its development, the challenges that have been faced, and the lessons that have been learned in developing and deploying a comprehensive open-source system for the construction of digital libraries internationally. Not surprisingly, ...

Keywords: architecture, greenstone, internationalization

40 BrowserShield: Vulnerability-driven filtering of dynamic HTML
Charles Reis, John Dunagan, Helen J. Wang, Opher Dubrovsky, Saher Esmeir
September 2007 **ACM Transactions on the Web (TWEB)**, Volume 1 Issue 3
Publisher: ACM Press
Full text available: pdf(385.02 KB) Additional Information: full citation, abstract, references, index terms

Vulnerability-driven filtering of network data can offer a fast and easy-to-deploy alternative or intermediary to software patching, as exemplified in Shield [Wang et al. 2004]. In this article, we take Shield's vision to a new domain, inspecting and cleansing not just static content, but also dynamic content. The dynamic content we target is the dynamic HTML in Web pages, which have become a popular vector for attacks. The key challenge in filtering dynamic HTML is that it is undecidable to ...

Keywords: JavaScript, Web browser, code rewriting, vulnerability

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Terms used: **search engines translate format native search** Found **132** of **215,481**

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41 Sync your data: update propagation for heterogeneous protein databases
T. Claypool, A. Rundensteiner
September 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(2.92 MB) Additional Information: full citation, abstract

The traditional model of bench (wet) chemistry in many life sciences domain is today actively complimented by computer-based discoveries utilizing the growing number of online data sources. A typical *computer-based discovery* scenario for many life scientists includes the creation of local caches of pertinent information from multiple online resources such as Swissprot [Nucleic Acid Res. **1**(28), 45–48 (2000)], PIR [Nucleic Acids Res. **28**(1), 41–44 (2000)], PDB [Th ...

Keywords: Data transformation, Data translation, Schema evolution, Update propagation, View maintenance

42 Digital libraries and cyberinfastructure track: creating information representations for the humanities (part 2): E-library of medieval chant manuscript transcriptions
Louis W. G. Barton, John A. Caldwell, Peter G. Jeavons
June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries JCDL '05**
Publisher: ACM Press
Full text available: pdf(668.36 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present our rationale and design principles for a *distributed e-library* of medieval chant manuscript transcriptions. We describe the great variety in *neumatic* notations, in order to motivate a standardised data representation that is *lossless* and universal with respect to these musical artefacts. We present some details of the data representation and an XML Schema for describing and delivering transcriptions via the Web. We argue against proposed data format ...

Keywords: XML, chant, comparison, data representation, digital libraries, medieval manuscripts, musical notation, search, transcription

43 m-links: An infrastructure for very small internet devices

Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01**
Publisher: ACM Press
Full text available: pdf(680.78 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability and other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...

Keywords: middleware, proxy, web phones, wireless, wireless web

44 On supporting containment queries in relational database management systems
Chun Zhang, Jeffrey Naughton, David DeWitt, Qiong Luo, Guy Lohman
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(223.70 KB) Additional Information: full citation, abstract, references, citings, index terms

Virtually all proposals for querying XML include a class of query we term "containment queries". It is also clear that in the foreseeable future, a substantial amount of XML data will be stored in relational database systems. This raises the question of how to support these containment queries. The inverted list technology that underlies much of Information Retrieval is well-suited to these queries, but should we implement this technology (a) in a separate loosely-coupled IR engin ...

45 Knowledge and representation: Acquisition, representation, query and analysis of spatial data: a demonstration 3D digital library
Jeremy Rowe, Anshuman Razdan, Arleyn Simon
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**
Publisher: IEEE Computer Society
Full text available: pdf(7.27 MB) Additional Information: full citation, abstract, references, index terms

The increasing power of techniques to model complex geometry and extract meaning from 3D information create complex data that must be described, stored, and displayed to be useful to researchers. Responding to the limitations of two-dimensional (2D) data representations perceived by discipline scientists, the Partnership for Research in Spatial Modeling (PRISM) project at Arizona State University (ASU) developed modeling and analytic tools that raise the level of abstraction and add semantic val ...

Keywords: WWW Applications, digital library, geometric modeling, image databases, information visualization, physically based modeling, scientific visualization, shape recognition

46 Localization of web content
Daniel Brandon
December 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 2
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(266.53 KB) Additional Information: full citation, references, index terms

47 Innovative Document Systems: The multivalent browser: a platform for new ideas

Thomas A. Phelps, Robert Wilensky
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering DocEng '01**
Publisher: ACM Press
Full text available: pdf(188.51 KB) Additional Information: full citation, abstract, references, citings, index terms

The Multivalent Browser is built on a architecture that separates functionality from concrete document format. Almost all functionality is made available via relatively small modules of code called behaviors that programmers can write to extend the core system. Behaviors can be as significant and powerful as parser-renderers for scanned paper, HTML, or TeX DVI; as fine-grained as hyperlinks, cookies, and the disabling of menu items; and as innovative or uncommon as in situ annotatins, "lenses", ...

Keywords: annotation, architecture, digital, document, multivalent behavior, paper, scanned

48 Application of machine learning techniques to improve web search results

Jessie Burger, Aaron Archer Waterman
May 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 5
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(18.26 KB) Additional Information: full citation, index terms

49 Early user---system interaction for database selection in massive domain-specific online environments

Jack G. Conrad, Joanne R. S. Claussen
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(845.54 KB) Additional Information: full citation, abstract, references, index terms

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

50 Strategic directions in electronic commerce and digital libraries: towards a digital agora

Nabil Adam, Yelena Yesha
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4
Publisher: ACM Press
Full text available: pdf(244.34 KB) Additional Information: full citation, references, citings, index terms

51 Evaluating the technologies: The text retrieval conferences (TRECS)

Ellen M. Voorhees, Donna Harman

October 1998 **Proceedings of a workshop on held at Baltimore, Maryland: October 13-15, 1998**

Publisher: Association for Computational Linguistics

Full text available: pdf(2.76 MB) Additional Information: full citation, abstract, references, citings

Phase III of the TIPSTER project included three workshops for evaluating document detection (information retrieval) projects: the fifth, sixth and seventh Text REtrieval Conferences (TRECs). This work was co-sponsored by the National Institute of Standards and Technology (NIST), and included evaluation not only of the TIPSTER contractors, but also of many information retrieval groups outside of the TIPSTER project. The conferences were run as workshops that provided a forum for participating gro ...

52 Self

David Ungar, Randall B. Smith

June 2007 **Proceedings of the third ACM SIGPLAN conference on History of programming languages HOPL III**

Publisher: ACM Press

Full text available: pdf(1.70 MB) Additional Information: full citation, appendices and supplements, abstract, references, index terms

The years 1985 through 1995 saw the birth and development of the language Self, starting from its design by the authors at Xerox PARC, through first implementations by Ungar and his graduate students at Stanford University, and then with a larger team formed when the authors joined Sun Microsystems Laboratories in 1991. Self was designed to help programmers become more productive and creative by giving them a simple, pure, and powerful language, an implementation that combined ease of use wit ...

Keywords: Self, adaptive optimization, cartoon animation, dynamic language, dynamic optimization, exploratory programming, history of programming languages, morphic, object-oriented language, programming environment, prototype-based programming language, virtual machine

53 Summarization and question answering: Using librarian techniques in automatic text summarization for information retrieval

Min-Yen Kan, Judith L. Klavans

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

A current application of automatic text summarization is to provide an overview of relevant documents coming from an information retrieval (IR) system. This paper examines how Centrifuser, one such summarization system, was designed with respect to methods used in the library community. We have reviewed these librarian expert techniques to assist information seekers and codified them into eight distinct strategies. We detail how we have operationalized six of these strategies in Centrifuser by c ...

Keywords: automatic text summarization, information retrieval user interfaces, reference librarian techniques

54 Capturing attention metadata: Application independent metadata generation

Jürgen Belizki, Stefania Costache, Wolfgang Nejdl

November 2006 **Proceedings of the 1st international workshop on Contextualized attention metadata: collecting, managing and exploiting of rich usage information CAMA '06**

Publisher: ACM Press

Full text available: pdf(564.39 KB) Additional Information: full citation, abstract, references, index terms

To efficiently support personal ways of desktop usage, we have to unleash the power of implicit metadata thus giving local data a well defined meaning. To achieve this, contextual information across heterogeneous media types, file formats, and applications should be annotated and linked. In this paper we present a light weight system which monitors the file structure and automatically generates semantic metadata based on the user activities. We underpin the utility of extracted metadata by showi ...

Keywords: contextualized metadata

55 Approximative filtering of XML documents in a publish/subscribe system

Annika Hinze, Yann Michel, Torsten Schlieder

January 2006 **Proceedings of the 29th Australasian Computer Science Conference - Volume 48 ACSC '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(228.42 KB) Additional Information: full citation, abstract, references, index terms

Publish/subscribe systems filter published documents and inform their subscribers about documents matching their interests. Recent systems have focussed on documents or messages sent in XML format. Subscribers have to be familiar with the underlying XML format to create meaningful subscriptions. A service might support several providers with slightly differing formats, e.g., several publishers of books. This makes the definition of a successful subscription almost impossible. This paper proposes ...

56 EIHA?!?: deploying Web and WAP services using XML technology

Chiara Biancheri, Jean-Christophe Pazzaglia, Gavino Paddeu

March 2001 **ACM SIGMOD Record**, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(744.53 KB) Additional Information: full citation, abstract, index terms

The exponential growth of resources on the web, and the wide deployment of devices for multimodal access to the Internet, lead to new problems in information management. In this context, and as part of the European project Vision, we have built an interactive telematic handbook of the culture and the territory of Sardinia. A team of cultural experts browsed the web to get a large collection of Internet resources.The system built for the management of this data uses emerging Internet technologies ...

Keywords: DBMS, DTD, WAP, WML, XML, XSL, metadata, search engine

57 Commercial applications of natural language processing

Kenneth W. Church, Lisa F. Rau

November 1995 **Communications of the ACM**, Volume 38 Issue 11

Publisher: ACM Press

Full text available: pdf(314.22 KB) Additional Information: full citation, abstract, references, citings, index terms

Vast quantities of text are becoming available in electronic form, ranging from published documents (e.g., electronic dictionaries, encyclopedias, libraries and archives for information retrieval services), to private databases (e.g., marketing information, legal records, medical histories), to personal email and faxes. Online information services are

reaching mainstream computer users. There were over 15 million Internet users in 1993, and projections are for 30 million in 1997. With media ...

58 Information integration with attribution support for corporate profiles

Thomas Lee, Melanie Chams, Robert Nado, Michael Siegel, Stuart Madnick
November 1999 **Proceedings of the eighth international conference on Information and knowledge management CIKM '99**
Publisher: ACM Press
Full text available: pdf(845.25 KB) Additional Information: full citation, abstract, references, index terms

The proliferation of electronically available data within large organizations as well as publicly available data (e.g. over the World Wide Web) poses challenges for users who wish to efficiently interact with and integrate multiple heterogeneous sources. This paper presents CI3, a corporate information integrator, which applies XML as a tool to facilitate data mediation and integration amongst heterogeneous sources in the context of financial analysts creating corporate ...

Keywords: XML, attribution, data integration, data mediation, metadata

59 Agents, interactions, mobility and systems: Guarding security sensitive content using confined mobile agents

Guido van 't Noordende, Frances M. T. Brazier, Andrew S. Tanenbaum
March 2007 **Proceedings of the 2007 ACM symposium on Applied computing SAC '07**
Publisher: ACM Press
Full text available: pdf(152.27 KB) Additional Information: full citation, abstract, references, index terms

Mobile code and mobile agents are generally associated with security vulnerabilities, rather than with increased security. This paper describes an approach in which mobile agents are *confined*, in order to allow content providers to retain control over how their data is exported while allowing agents to search the full content of this data locally. This approach offers increased control and security compared to the traditional client-server technologies commonly used for building distri ...

Keywords: confinement, information flow control, mobile agents

60 Building and Using a Lexical Knowledge Base of Near-Synonym Differences

Diana Inkpen, Graeme Hirst
June 2006 **Computational Linguistics**, Volume 32 Issue 2
Publisher: MIT Press
Full text available: pdf(3.60 MB) Additional Information: full citation, abstract, references, cited by, index terms

The initial knowledge base is later enriched with information from other machine-readable dictionaries. Information about the collocational behavior of the near-synonyms is acquired from free text. The knowledge base is used by Xenon, a natural language generation system that shows how the new lexical resource can be used to choose the best near-synonym in specific situations.

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61 Detection and evidence: Out-of-context noun phrase semantic interpretation with cross-linguistic evidence

Roxana Girju

November 2006 **Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06**

Publisher: ACM Press

Full text available: pdf(231.70 KB) Additional Information: full citation, abstract, references, index terms

The acquisition of semantic knowledge is paramount for any application that requires a deep understanding of natural language text. Motivated by the problem of building a noun phrase-level semantic parser and adapting it to various applications, such as machine translation and multilingual question answering, in this paper we present a domain-independent model for noun phrase semantic interpretation. We investigate the problem based on cross-linguistic evidence from a set of four Romance languag ...

Keywords: SVM, classification, computational semantics, semantic relations

62 Building a distributed full-text index for the web

Sergey Melink, Sriram Raghavan, Beverly Yang, Hector Garcia-Molina

July 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(651.72 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We identify crucial design issues in building a distributed inverted index for a large collection of Web pages. We introduce a novel pipelining technique for structuring the core index-building system that substantially reduces the index construction time. We also propose a storage scheme for creating and managing inverted files using an embedded database system. We suggest and compare different strategies for collecting global statistics from distributed inverted indexes. Finally, we present pe ...

Keywords: Distributed indexing, Embedded databases, Inverted files, Pipelining, Text retrieval

63 Runtime reliability mechanisms: BrowserShield: vulnerability-driven filtering of dynamic HTML

Charles Reis, John Dunagan, Helen J. Wang, Opher Dubrovsky, Saher Esmeir
November 2006 **Proceedings of the 7th symposium on Operating systems design and implementation OSDI '06**
Publisher: USENIX Association
Full text available: pdf(411.90 KB) Additional Information: full citation, abstract, references

Vulnerability-driven filtering of network data can offer a fast and easy-to-deploy alternative or intermediary to software patching, as exemplified in Shield [43]. In this paper, we take Shield's vision to a new domain, inspecting and cleansing not just static content, but also dynamic content. The dynamic content we target is the dynamic HTML in web pages, which have become a popular vector for attacks. The key challenge in filtering dynamic HTML is that it is undecidable to statically deter ...

64 Using SGML as a basis for data-intensive NLP
David McKelvie, Chris Brew, Henry Thompson
March 1997 **Proceedings of the fifth conference on Applied natural language processing**
Publisher: Morgan Kaufmann Publishers Inc.
Full text available: pdf(792.46 KB) Publisher Site Additional Information: full citation, abstract, references, citings

This paper describes the LT NSL system (McKelvie et al, 1996), an architecture for writing corpus processing tools. This system is then compared with two other systems which address similar issues, the GATE system (Cunningham et al, 1995) and the IMS Corpus Workbench (Christ, 1994). In particular we address the advantages and disadvantages of an SGML approach compared with a non-SGML database approach.

65 Merging interactive visualizations with hypertextbooks and course management
Guido Rößling, Thomas Naps, Mark S. Hall, Ville Karavirta, Andreas Kerren, Charles Leska, Andrés Moreno, Rainer Oechsle, Susan H. Rodger, Jaime Urquiza-Fuentes, J. Ángel Velázquez-Iturbide
June 2006 **ACM SIGCSE Bulletin , Working group reports on ITiCSE on Innovation and technology in computer science education ITiCSE-WGR '06**, Volume 38 Issue 4
Publisher: ACM Press
Full text available: pdf(574.51 KB) Additional Information: full citation, abstract, references, index terms

As a report of a working group at ITiCSE 2006, this paper provides a vision of how visualizations and the software that generates them may be integrated into hypertextbooks and course management systems. This integration generates a unique synergy that we call a Visualization-based Computer Science Hypertextbook (VizCoSH). By borrowing features of both traditional hypertextbooks and course management systems, VizCoSHs become delivery platforms that address some of the reasons why visualizations ...

Keywords: animation, hypertextbooks, pedagogy, visualization

66 Storage: DejaView: a personal virtual computer recorder
Oren Laadan, Ricardo A. Baratto, Dan B. Phung, Shaya Potter, Jason Nieh
October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07**
Publisher: ACM Press
Full text available: pdf(534.51 KB) Additional Information: full citation, abstract, references, index terms

As users interact with the world and their peers through their computers, it is becoming important to archive and later search the information that they have *viewed*. We present DejaView, a personal virtual computer recorder that provides a complete record of a

desktop computing experience that a user can playback, browse, search, and revive seamlessly. DejaView records visual output, checkpoints corresponding application and file system state, and captures displayed text with contextua ...

Keywords: desktop search, virtualization

67 Linking by inking: trailblazing in a paper-like hypertext

Morgan N. Price, Gene Golovchinsky, Bill N. Schilit

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems HYPERTEXT '98**

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, references, citings, index terms

68 Desparately seeking Cebuano

Douglas W. Oard, David Doermann, Bonnie Dorr, Daqing He, Philip Resnik, Amy Weinberg, William Byrne, Sanjeev Khudanpur, David Yarowsky, Anton Leuski, Philipp Koehn, Kevin Knight

May 2003 **Proceedings of the 2003 Conference of the North American Chapter of the Association for Computational Linguistics on Human Language Technology: companion volume of the Proceedings of HLT-NAACL 2003--short papers - Volume 2 NAACL '03**

Publisher: Association for Computational Linguistics

Full text available: pdf(38.04 KB) Additional Information: full citation, abstract

This paper describes an effort to rapidly develop language resources and component technology to support searching Cebuano news stories using English queries. Results from the first 60 hours of the exercise are presented.

69 Expressive retrieval from XML documents

Taurai Tapiwa Chinenyanga, Nicholas Kushmerick

September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '01**

Publisher: ACM Press

Full text available: pdf(400.63 KB) Additional Information: full citation, abstract, references, citings, index terms

The emergence of XML as a standard interchange format for structured documents/data has given rise to many XML query language proposals. However, some of these languages do not support information retrieval-style ranked queries based on textual similarity. There have been several extensions to these query languages to support keyword search, but the resulting query languages cannot express queries such as``find books and CDs with similar titles''. Either these extensions u ...

70 Integrating document and data retrieval based on XML

Jan-Marco Bremer, Michael Gertz

January 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(841.10 KB) Additional Information: full citation, abstract

For querying structured and semistructured data, data retrieval and document retrieval are two valuable and complementary techniques that have not yet been fully integrated.

In this paper, we introduce integrated information retrieval (IIR), an XML-based retrieval approach that closes this gap. We introduce the syntax and semantics of an extension of the XQuery language called XQuery/IR. The extended language realizes IIR and thereby allows users to formulate new kinds of queries by nesting rank ...

Keywords: Data retrieval, Document retrieval, Index structures, Integrated information retrievals, Structural join, XML

71 Graph based retrieval (IR): Dex: high-performance exploration on large graphs for information retrieval

Norbert Martínez-Bazan, Victor Muntés-Mulero, Sergio Gómez-Villamor, Jordi Nin, Mario-A. Sánchez-Martínez, Josep-L. Larriba-Pey

November 2007 **Proceedings of the sixteenth ACM conference on Conference on information and knowledge management CIKM '07**

Publisher: ACM

Full text available: pdf(500.02 KB) Additional Information: full citation, abstract, references, index terms

Link and graph analysis tools are important devices to boost the richness of information retrieval systems. Internet and the existing social networking portals are just a couple of situations where the use of these tools would be beneficial and enriching for the users and the analysts. However, the need for integrating different data sources and, even more important, the need for high performance generic tools, is at odds with the continuously growing size and number of data repositories.

...

Keywords: data representation, graph databases, information retrieval, query performance, social networks

72 Research articles and surveys: Peer-to-peer management of XML data: issues and research challenges

Georgia Koloniari, Evaggelia Pitoura

June 2005 **ACM SIGMOD Record**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(301.94 KB) Additional Information: full citation, abstract, references, index terms

Peer-to-peer (p2p) systems are attracting increasing attention as an efficient means of sharing data among large, diverse and dynamic sets of users. The widespread use of XML as a standard for representing and exchanging data in the Internet suggests using XML for describing data shared in a p2p system. However, sharing XML data imposes new challenges in p2p systems related to supporting advanced querying beyond simple keyword-based retrieval. In this paper, we focus on data management issues fo ...

73 A statistical model for near-synonym choice

Diana Inkpen

January 2007 **ACM Transactions on Speech and Language Processing (TSLP)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(312.05 KB) Additional Information: full citation, abstract, references, index terms

We present an unsupervised statistical method for automatic choice of near-synonyms when the context is given. The method uses the Web as a corpus to compute scores based on mutual information. Our evaluation experiments show that this method performs better than two previous methods on the same task. We also describe experiments in using supervised learning for this task. We present an application to an intelligent thesaurus.

This work is also useful in machine translation and natural language ...

Keywords: Lexical choice, Web as a corpus, intelligent thesaurus, near-synonyms, semantic similarity

74 Tutorials: tutorial 1: Towards an enterprise XML architecture

Ravi Murthy, Zhen Hua Liu, Muralidhar Krishnaprasad, Sivasankaran Chandrasekar, Anh-Tuan Tran, Eric Sedlar, Daniela Florescu, Susan Kotsovolos, Nipun Agarwal, Vikas Arora, Viswanathan Krishnamurthy

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**

Publisher: ACM Press

Full text available: pdf(260.60 KB) Additional Information: full citation, abstract, references, citings

XML is being increasingly used in diverse domains ranging from data and application integration to content management. Oracle provides an enterprise wide platform for managing all types of XML content. Within the Oracle database and the application server, the XML content can be efficiently stored using a variety of storage and indexing methods and it can be processed using multiple standard languages within different programmatic environments.

75 The interagency digital library for science and engineering: a federated digital library pilot for the U.S. government scientist

Blaine Baker, John Salerno

August 1999 **Proceedings of the fourth ACM conference on Digital libraries DL '99**

Publisher: ACM Press

Full text available: pdf(25.36 KB) Additional Information: full citation, references, index terms

Keywords: government scientific researchers, government security levels, heterogeneous database searching, interoperable digital libraries, universal log-on

76 Communities: Blogging as social activity, or, would you let 900 million people read your diary?

Bonnie A. Nardi, Diane J. Schiano, Michelle Gumbrecht

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work CSCW '04**

Publisher: ACM Press

Full text available: pdf(376.63 KB) Additional Information: full citation, abstract, references, citings, index terms

"Blogging" is a Web-based form of communication that is rapidly becoming mainstream. In this paper, we report the results of an ethnographic study of blogging, focusing on blogs written by individuals or small groups, with limited audiences. We discuss motivations for blogging, the quality of social interactivity that characterized the blogs we studied, and relationships to the blogger's audience. We consider the way bloggers related to the known audience of their personal social networks as ...

Keywords: WWW, activity theory, blogs, computer-mediated communication

77 Flavor: a language for media representation

Alexandros Eleftheriadis

November 1997 **Proceedings of the fifth ACM international conference on Multimedia MULTIMEDIA '97**
Publisher: ACM Press
Full text available: pdf(1.35 MB) Additional Information: full citation, references, citings, index terms

78 EXACT: the experimental algorithmics computational toolkit
William E. Hart, Jonathan W. Berry, Robert Heaphy, Cynthia A. Phillips
June 2007 **Proceedings of the 2007 workshop on Experimental computer science ExpCS '07**
Publisher: ACM Press
Full text available: pdf(231.70 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we introduce EXACT, the EXperimental Algorithmics Computational Toolkit. EXACT is a software framework for describing, controlling, and analyzing computer experiments. It provides the experimentalist with convenient software tools to ease and organize the entire experimental process, including the description of factors and levels, the design of experiments, the control of experimental runs, the archiving of results, and analysis of results.

As a case study for EXACT, we ...

Keywords: experimental analysis, experimental design, software testing

79 XML query processing: Query processing of streamed XML data
Leonidas Fegaras, David Levine, Sujoe Bose, Vamsi Chaluvadi
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management CIKM '02**
Publisher: ACM Press
Full text available: pdf(246.55 KB) Additional Information: full citation, abstract, references, citings, index terms

We are addressing the efficient processing of continuous XML streams, in which the server broadcasts XML data to multiple clients concurrently through a multicast data stream, while each client is fully responsible for processing the stream. In our framework, a server may disseminate XML fragments from multiple documents in the same stream, can repeat or replace fragments, and can introduce new fragments.or delete invalid ones. A client uses a light-weight database based on our proposed XML alge ...

Keywords: XML, databases, query optimization, query processing

80 Interview: A conversation with Pat Selinger
James Hamilton
April 2005 **Queue**, Volume 3 Issue 3
Publisher: ACM Press
Full text available: pdf(700.87 KB) html(36.14 KB) Additional Information: full citation, abstract, index terms

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Relevance scale

81 An XML framework for agent-based E-commerce

Robert J. Glushko, Jay M. Tenenbaum, Bart Meltzer
March 1999 **Communications of the ACM**, Volume 42 Issue 3
Publisher: ACM Press
Full text available: pdf(277.43 KB) html(33.22 KB) Additional Information: full citation, references, citings, index terms

82 Strategic directions in database systems—breaking out of the box

Avi Silberschatz, Stan Zdonik
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4
Publisher: ACM Press
Full text available: pdf(222.64 KB) Additional Information: full citation, references, citings, index terms

83 Information exploration using The Pond

Olov Ståhl, Anders Wallberg, Jonas Söderberg, Jan Humble, Lennart E. Fahlén, Adrian Bullock, Jenny Lundberg
September 2002 **Proceedings of the 4th international conference on Collaborative virtual environments CVE '02**
Publisher: ACM Press
Full text available: pdf(2.38 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe The Pond, a system used to search for and visualise data elements on an engaging tabletop display. The Pond uses methods of unencumbered interaction and audio feedback to allow users to investigate data elements, and supports shoulder-to-shoulder collaboration with the physical Pond artefact mediating the collaboration between those people gathered around it. The user interface is based on an ecosystem metaphor, presenting data elements in the form of shoals of aquatic ...

Keywords: database, searching, virtual environment, visualization

84 Papers: On the move: From desktop to phonetop: a UI for web interaction on very small devices

Jonathan Trevor, David M. Hilbert, Bill N. Schilit, Tzu Khiau Koh
November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01**
Publisher: ACM Press
Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, citings, index terms

While it is generally accepted that new Internet terminals should leverage the installed base of Web content and services, the differences between desktop computers and very small devices makes this challenging. Indeed, the browser interaction model has evolved on desktop computers having a unique combination of user interface (large display, keyboard, pointing device), hardware, and networking capabilities. In contrast, Internet enabled cell phones, typically with 3-10 lines of text, sacrifice ...

Keywords: PDA, Web browsing, transcoding, transducing, web phone, wireless web

85 Editors' choice 2006
Linux Journal Staff
December 2006 **Linux Journal**, Volume 2006 Issue 152
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(10.17 KB) Additional Information: full citation, abstract, index terms

Linux Journal editors pick their favorites.

86 Database systems—breaking out of the box
Avi Silberschatz, Stan Zdonik
September 1997 **ACM SIGMOD Record**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(1.23 MB) Additional Information: full citation, citings, index terms

87 An Internet-based negotiation server for e-commerce
Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriyawej, Minsoo Lee, Herman Lam
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(355.19 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

88 Session 1: Natural language processing for information retrieval: the time is ripe (again)
Matthew Lease
November 2007 **Proceedings of the ACM first Ph.D. workshop in CIKM PIKM '07**

Publisher: ACM
Full text available: pdf(179.57 KB) Additional Information: full citation, abstract, references, index terms

Paraphrasing van Rijsbergen [37], the time is ripe for another attempt at using natural language processing (NLP) for information retrieval (IR). This paper introduces my dissertation study, which will explore methods for integrating modern NLP with state-of-the-art IR techniques. In addition to text, I will also apply retrieval to conversational speech data, which poses a unique set of considerations in comparison to text. Greater use of NLP has potential to improve both text and speech retr ...

Keywords: information retrieval, natural language processing

89 Document Databases: Requirements for XML document database systems
Airi Salminen, Frank Wm. Tompa
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering DocEng '01**
Publisher: ACM Press
Full text available: pdf(141.89 KB) Additional Information: full citation, abstract, references, citings, index terms

The shift from SGML to XML has created new demands for managing structured documents. Many XML documents will be transient representations for the purpose of data exchange between different types of applications, but there will also be a need for effective means to manage persistent XML data as a database. In this paper we explore requirements for an XML database management system. The purpose of the paper is not to suggest a single type of system covering all necessary features. Instead the pur ...

Keywords: XML, XML database systems, data definition, data manipulation, data modelling, structured documents

90 Pervasive computing: what is it good for?
Andrew C. Huang, Benjamin C. Ling, Shankar Ponnekanti
August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access MobiDe '99**
Publisher: ACM Press
Full text available: pdf(897.82 KB) Additional Information: full citation, references, citings, index terms

91 Blueprint for a high performance NLP infrastructure
James R. Curran
May 2003 **Proceedings of the HLT-NAACL 2003 workshop on Software engineering and architecture of language technology systems - Volume 8 SEALTS '03**
Publisher: Association for Computational Linguistics
Full text available: pdf(92.57 KB) Additional Information: full citation, abstract, references

Natural Language Processing (NLP) system developers face a number of new challenges. Interest is increasing for real-world systems that use NLP tools and techniques. The quantity of text now available for training and processing is increasing dramatically. Also, the range of languages and tasks being researched continues to grow rapidly. Thus it is an ideal time to consider the development of new experimental frameworks. We describe the requirements, initial design and exploratory implementation ...

92 Distance education in a global age: a perspective for internationalizing online learning communities

Kirk St. Amant
January 2005 **ACM SIGGROUP Bulletin**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(223.85 KB) Additional Information: full citation, abstract, references, index terms

As global online access grows, so does the prospect that online classes will contain students from various cultures and countries. Within this educational environment, cultural differences can affect how students share ideas, comprehend concepts, and access course-related materials. Effective instruction in international online classes therefore requires instructors to address those cultural differences that could most greatly affect learning in such environments. This essay provides an overview ...

Keywords: communication, culture, international online learning environment, language, online access, resources, rhetoric, strategy, visual design

93 Session 4: GenI: natural language generation in Haskell

Eric Kow
September 2006 **Proceedings of the 2006 ACM SIGPLAN workshop on Haskell Haskell '06**
Publisher: ACM Press
Full text available: pdf(973.28 KB) Additional Information: full citation, abstract, references, index terms

In this article we present GenI, a chart based surface realisation tool implemented in Haskell. GenI takes as input a set of first order terms (the input semantics) and a grammar for a given target language (e.g., English, French, Spanish, etc.) and generates sentences in the target language, whose semantic meaning corresponds to the input semantics.The aim of the article is not so much to present GenI or to describe how it is implemented. Rather, we will focus on the aspects of functional progr ...

Keywords: Haskell, applications, computational linguistics, monads, profiling, realisation, surface, typeclasses

94 Q focus: databases: Beyond relational databases

Margo Seltzer
April 2005 **Queue**, Volume 3 Issue 3
Publisher: ACM Press
Full text available: pdf(654.63 KB) html(35.21 KB) Additional Information: full citation, abstract, references, index terms

There is more to data access than SQL.

95 Overview of some patterns for architecting and managing composite web services

B. Benatallah, M. Dumas, M.-C. Fauvet, F. A. Rabhi, Quan Z. Sheng
June 2002 **ACM SIGecom Exchanges**, Volume 3 Issue 3
Publisher: ACM Press
Full text available: pdf(126.49 KB) Additional Information: full citation, abstract, references, citings, index terms

The composition of Web services has gained a considerable momentum as a paradigm for enabling Business-to-Business (B2B) Collaborations. Numerous technologies supporting this new paradigm are rapidly emerging, thereby creating a need for methodologies that bring these technologies together. The identification and documentation of relevant patterns, both at the analysis and design levels, is an important step in this direction.

Keywords: B2B e-commerce, design patterns, web services

96 Design and implementation of a distributed virtual machine for networked computers

Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the motivation, architecture and performance of a distributed virtual machine (DVM) for networked computers. DVMs rely on a distributed service architecture to meet the manageability, security and uniformity requirements of large, heterogeneous clusters of networked computers. In a DVM, system services, such as verification, security enforcement, compilation and optimization, are factored out of clients and located on powerful network servers. This partitioning of system fun ...

97 Surfing the net for software engineering notes: Surfing the net for software engineering notes

Mark Doernhoefer

September 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, index terms

I mention many different free open source software (FOSS) products in this column in conjunction with the topics I select each month. This month, instead of focusing on a single topic, I thought I'd present a collection of some of the most popular free and open source software products currently in production in order to give you an impression on the size and scope of FOSS packages available.

98 First European workshop on XML and knowledge management best papers: XML and the future of humanities computing

Franco Niccolucci

April 2002 **ACM SIGAPP Applied Computing Review**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(44.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The existence of XML induces to hope that some limits of humanities computing may soon be trespassed. Here we mention some arguments concerning data management and 3D visualization, describing a few examples and test cases where the use of XML dramatically improved the quality of the application. These include text encoding, archaeological data management and Virtual Reality reconstruction of Cultural Heritage.

Keywords: X3D, archaeological databases, cultural virtual reconstructions, medieval history

99 Web 2.0 and accessibility: A web accessibility report card for top international university web sites

Shaun K. Kane, Jessie A. Shulman, Timothy J. Shockley, Richard E. Ladner

May 2007 **Proceedings of the 2007 international cross-disciplinary conference on Web accessibility (W4A) W4A '07**

Publisher: ACM Press

Full text available: pdf(517.10 KB) Additional Information: full citation, abstract, references, index terms

University web pages play a central role in the activities of current and prospective postsecondary students. University sites that are not accessible may exclude people with disabilities from participation in educational, social and professional activities. In order to assess the current state of university web site accessibility, we performed a multi-method analysis of the home pages of 100 top international universities. Each site was analyzed for compliance with accessibility standards, i ...

Keywords: WCAG, accessibility, education, evaluation, section 508, web

100 Integrating open hypermedia systems with the World Wide Web

Kenneth M. Anderson
April 1997 **Proceedings of the eighth ACM conference on Hypertext HYPERTEXT '97**
Publisher: ACM Press
Full text available: pdf(1.00 MB) Additional Information: full citation, references, citings, index terms

Keywords: Chimera, World Wide Web, intergration, open hypermedia systems

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Relevance scale

101 Information retrieval 2: Learning metadata from the evidence in an on-line citation matching scheme

Isaac G. Councill, Huajing Li, Ziming Zhuang, Sandip Debnath, Levent Bolelli, Wang Chien Lee, Anand Sivasubramaniam, C. Lee Giles

June 2006 **Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries JCDL '06**

Publisher: ACM Press

Full text available: pdf(431.06 KB) Additional Information: full citation, abstract, references, index terms

Citation matching, or the automatic grouping of bibliographic references that refer to the same document, is a data management problem faced by automatic digital libraries for scientific literature such as CiteSeer and Google Scholar. Although several solutions have been offered for citation matching in large bibliographic databases, these solutions typically require expensive batch clustering operations that must be run offline. Large digital libraries containing citation information can reduce ...

Keywords: CiteSeer, bayesian inference, citation matching

102 Posters: Multilingual distance learning for engineering

K. W. E. Cheng, K. F. Kwok

November 2002 **Companion of the 17th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**

Publisher: ACM Press

Full text available: pdf(369.01 KB) Additional Information: full citation, abstract, references

An advanced distance learning method is introduced that is especially programmed for non-native English speakers. Many language features have been implemented to arouse undergraduate students' interests in learning. The package is also programmed to help professors to teach much easier than before.

Keywords: distance-learning, engineering, teaching and learning

103 Video: Effects of audio and visual surrogates for making sense of digital video

Yaxiao Song, Gary Marchionini

April 2007 **Proceedings of the SIGCHI conference on Human factors in computing**

systems CHI '07
Publisher: ACM Press
Full text available: pdf(325.37 KB) Additional Information: full citation, abstract, references, index terms

Video surrogates are meant to help people quickly make sense of the content of a video before downloading or seeking more detailed information. In this paper we present the results of a study comparing the effectiveness of three different surrogates for objects in digital video libraries. Thirty-six people participated in a within subjects user study in which they did five tasks for each of three surrogate alternatives: visual alone (a storyboard), audio alone (spoken description), and combin ...

Keywords: dual coding, multimedia, video surrogates

104 Database and digital library technologies: Bulkloading and maintaining XML documents
Albrecht Schmidt, Martin Kersten
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**
Publisher: ACM Press
Full text available: pdf(555.23 KB) Additional Information: full citation, abstract, references, citings, index terms

The popularity of XML as a exchange and storage format brings about massive amounts of documents to be stored, maintained and analyzed --- a challenge that traditionally has been tackled with Database Management Systems (DBMS). To open up the content of XML documents to analysis with declarative query languages, efficient bulk loading techniques are necessary.Database technology has traditionally been offering support for these tasks but yet falls short of providing efficient automation techniqu ...

Keywords: XML, document databases, document warehouses, maintenance, relational databases

105 Workshop on compositional software architectures: workshop report
May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3
Publisher: ACM Press
Full text available: pdf(2.91 MB) Additional Information: full citation, index terms

106 Technology to enable learning I: SVG for educational simulations
Daniel S. Bogaard, Ronald P. Vullo, Christopher D. Cascioli
October 2004 **Proceedings of the 5th conference on Information technology education CITC5 '04**
Publisher: ACM Press
Full text available: pdf(234.58 KB) Additional Information: full citation, abstract, references, index terms

Helping students to understand complex ideas will always be problematic for teaching professionals. Often, the students can be limited by not only their imagination, but by their experiences. When trying to explain something that is outside of the students' imagination, it is often helpful to have either simple animations or even interactive simulations that the students can explore. The creation of interactive environments and the use of animation can greatly help educators get their point a ...

Keywords: animation, instructional software, scalable vector graphics, simulations

107 And nothing to watch: separating the news from the noise at Internet World

Clay Shirky
December 1999 **netWorker**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: pdf(211.47 KB) html(15.57 KB) Additional Information: full citation, index terms

108 Building a hypertextual digital library in the humanities: a case study on London

Gregory Crane, David A. Smith, Clifford E. Wulfman
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**
Publisher: ACM Press
Full text available: pdf(361.82 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the creation of a new humanities digital library collection: 11,000,000 words and 10,000 images representing books, images and maps on pre-twentieth century London and its environs. The London collection contained far more dense and precise information than the materials from the Greco-Roman world on which we had previously concentrated. The London collection thus allowed us to explore new problems of data structure, manipulation, and visualization. This paper contrast ...

Keywords: automatic linking, browsing, collection development, document design, reading

109 Interacting with the WWW: Looking for convenient alternatives to forms for querying remote databases on the Web: a new iconic interface for progressive queries

Fabrizio Capobianco, Mauro Mosconi, Lorenzo Pagnin
May 1996 **Proceedings of the workshop on Advanced visual interfaces AVI '96**
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references

The enormous popularity of the World Wide Web has made putting public access databases on the Web practically mandatory. Forms embedded within the Web clients (e.g. Netscape) are therefore emerging as the most common interfaces in database querying. Should this solution be considered completely satisfactory?We highlight some of the important limits we experienced with forms and we propose a convenient alternative solution, based on direct manipulation of icons. The system we have developed is ea ...

110 GeoName: a system for back-transliterating Pinyin place names

Kui Lam Kwok, Qiang Deng
May 2003 **Proceedings of the HLT-NAACL 2003 workshop on Analysis of geographic references - Volume 1**
Publisher: Association for Computational Linguistics
Full text available: pdf(119.91 KB) Additional Information: full citation, abstract, references

To be unambiguous about a Chinese geographic name represented in English text as Pinyin, one needs to recover the name in Chinese characters. We present our approach to this back-transliteration problem based on processes such as bilingual geographic name lookup, name suggestion using place name character and pair frequencies, and confirmation via a collection of monolingual names or the WWW. Evaluation shows that about 48% to 72% of the correct names can be recovered as the top candidate, and 8 ...

111

A Benchmark Suite for SOAP-based Communication in Grid Web Services

Michael R. Head, Madhusudhan Govindaraju, Aleksander Slominski, Pu Liu, Nayef Abu-Ghazaleh, Robert van Engelen, Kenneth Chiu, Michael J. Lewis

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available: pdf(337.08 KB) Additional Information: full citation, abstract, index terms

The convergence of Web services and grid computing has promoted SOAP, a widely used Web services protocol, into a prominent protocol for a wide variety of grid applications. These applications differ widely in the characteristics of their respective SOAP messages, and also in their performance requirements. To make the right decisions, an application developer must thus understand the complex dependencies between the SOAP implementation and the application. We propose a standard benchmark suite ...

112 Performance: Clarifying the fundamentals of HTTP

Jeffery C. Mogul

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available: pdf(157.39 KB) Additional Information: full citation, abstract, references, citings, index terms

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, difficulty in extending the protocol, and a long specification without much documented rationale.Many of the problems with HTTP can be traced to unfortunate choices about fundamental definitions and models. This paper analyzes the current (HTTP ...

Keywords: HTTP, protocol design

113 Characterizing the memory behavior of Java workloads: a structured view and opportunities for optimizations

Yefim Shuf, Mauricio J. Serrano, Manish Gupta, Jaswinder Pal Singh

June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '01**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, references, citings

This paper studies the memory behavior of important Java workloads used in benchmarking Java Virtual Machines (JVMs), based on instrumentation of both application and library code in a state-of-the-art JVM, and provides structured information about these workloads to help guide systems' design. We begin by characterizing the inherent memory behavior of the benchmarks, such as information on the breakup of heap accesses among different categories and on the hotness of references to fields and met ...

114 Document formatting: Using SVG as the rendering model for structured and graphically complex web material

Julius C. Mong, David F. Brailsford

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering DocEng '03**

Publisher: ACM Press

Full text available: pdf(124.14 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper reports some experiments in using SVG (Scalable Vector Graphics), rather than the browser default of (X)HTML/CSS, as a potential Web-based rendering technology, in an attempt to create an approach that integrates the structural and display aspects of a Web document in a single XML-compliant envelope.Although the syntax of SVG is XML based, the semantics of the primitive graphic operations more closely resemble those of page description languages such as PostScript or PDF. The principa ...

Keywords: PDF, SVG, XML, vector graphics

115 PMML and UIMA based frameworks for deploying analytic applications and services

David Ferrucci, Robert L. Grossman, Anthony Levas
August 2006 **Proceedings of the 4th international workshop on Data mining standards, services and platforms DMSSP '06**
Publisher: ACM Press
Full text available: pdf(339.74 KB) Additional Information: full citation, abstract, references

It is convenient to divide data into structured data, semi-structured data and unstructured data. By structured data, we mean data that is organized into fields or attributes. Examples include database records. Semi-structured data has attributes but does not have the regularity of structured data. Data defined by HTML or XML tags are examples of semi-structured data. Unstructured data lacks attributes or fields and includes text data, signals, images, video, audio or similar data. Of course, ...

116 Research centers: Database research at the University of Illinois at Urbana-Champaign

M. Winslett, K. Chang, A. Doan, J. Han, C. Zhai, Y. Zhou
September 2002 **ACM SIGMOD Record**, Volume 31 Issue 3
Publisher: ACM Press
Full text available: pdf(668.38 KB) Additional Information: full citation, references

117 Catching phish: The methodology and an application to fight against Unicode attacks

Anthony Y. Fu, Xiaotie Deng, Liu Wenyin, Greg Little
July 2006 **Proceedings of the second symposium on Usable privacy and security SOUPS '06**
Publisher: ACM Press
Full text available: pdf(453.95 KB) Additional Information: full citation, abstract, references, index terms

Unicode is becoming a dominant character representation format for information processing. This presents a very dangerous usability and security problem for many applications. The problem arises because many characters in the UCS (Universal Character Set) are visually and/or semantically similar to each other. This presents a mechanism for malicious people to carry out Unicode Attacks, which include spam attacks, phishing attacks, and web identity attacks. In this paper, we address the potential ...

Keywords: Unicode, phishing, secure web identity, spam

118 The 1999 ICFP programming contest

Norman Ramsey, Kevin Scott
March 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(1.10 MB) Additional Information: full citation, index terms

119 Hypertext culture & communication: What is an analogue for the semantic web and why is having one important?

m. c. schraefel

September 2007 **Proceedings of the 18th conference on Hypertext and hypermedia HT '07**

Publisher: ACM Press

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, index terms

This paper postulates that for the Semantic Web to grow and gain input from fields that will surely benefit it, it needs to develop an analogue that will help people not only understand what it is, but what the potential opportunities are that are enabled by these new protocols. The model proposed in the paper takes the way that Web interaction has been framed as a baseline to inform a similar analogue for the Semantic Web. While the Web has been represented as a Page + Links, the paper prese ...

Keywords: hypertext argumentation, interaction design, jourknow, mSpace, memex, notebooks, semantic web, tabulator

120 Exposing undergraduate students to database system internals

Anastassia Ailamaki, Joseph M. Hellerstein

September 2003 **ACM SIGMOD Record**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(29.81 KB) Additional Information: full citation, abstract, references, citings

In Spring 2003, Joe Hellerstein at Berkeley and Natassa Ailamaki at CMU collaborated in designing and running parallel editions of an undergraduate database course that exposed students to developing code in the core of a ful-function database system. As part of this exercise, our course teams developed new programming projects based on the PostgreSQL open-source DBMS. This report describes our experience with this effort.

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121 Hypertext models & theory: A semantics-based aspect-oriented approach to adaptation in web engineering

Sven Casteleyn, William Van Woensel, Geert-Jan Houben

September 2007 **Proceedings of the 18th conference on Hypertext and hypermedia HT '07**

Publisher: ACM Press

Full text available: pdf(316.09 KB) Additional Information: full citation, abstract, references, index terms

In the modern Web, users are accessing their favourite Web applications from any place, at any time and with any device. In this setting, they expect the application to user-tailor and personalize content access upon their particular needs. Exhibiting some kind of user- and context-dependency is thus crucial in Web Engineering. In this research, we focus on separating the adaptation engineering process from regular Web engineering by applying aspect-oriented techniques. We show how semantic i ...

Keywords: adaptation, aspect-orientation, semantic web, web engineering

122 Best practices: Development principles for online courses: a baker's dozen

Rory McGreal

November 2005 **eLearn**, Volume 2005 Issue 11

Publisher: ACM Press

Full text available: html(23.96 KB) Publisher Site Additional Information: full citation, index terms

123 Application of XML tools for enterprise-wide RBAC implementation tasks

Ramaswamy Chandramouli

July 2000 **Proceedings of the fifth ACM workshop on Role-based access control RBAC '00**

Publisher: ACM Press

Full text available: pdf(66.85 KB) Additional Information: full citation, abstract, references, citings, index terms

The use of Extensible Markup Language (XML) and its associated APIs, for information modeling and information interchange applications is being actively explored by the reseach community. In this paper we develop an XML Document Type Definition (DTD) for

representing the schema of a Role-based Access Control (RBAC) Model and a conforming XML document containing the actual RBAC-based access control data for a commercial banking application. Based on this DTD, the XML document and the methods ...

124 Systems and prototypes: Java support for data-intensive systems: experiences building the telegraph dataflow system

Mehul A. Shah, Michael J. Franklin, Samuel Madden, Joseph M. Hellerstein
December 2001 **ACM SIGMOD Record**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, citings

Database system designers have traditionally had trouble with the default services and interfaces provided by operating systems. In recent years, developers and enthusiasts have increasingly promoted Java as a serious platform for building data-intensive servers. Java provides a number of very helpful language features, as well as a full run-time environment reminiscent of a traditional operating system. This combination of features and community support raises the question of whether Java is be ...

125 How to port Linux when the hardware turns soft

David Lynch
January 2007 **Linux Journal**, Volume 2007 Issue 153

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(287.14 KB) Additional Information: full citation, abstract, index terms

Soul of the Pico machines

126 24-hour knowledge factory: Using Internet technology to leverage spatial and temporal separations

Amar Gupta, Satwik Seshasai
August 2007 **ACM Transactions on Internet Technology (TOIT)**, Volume 7 Issue 3

Publisher: ACM

Full text available: pdf(589.35 KB) Additional Information: full citation, abstract, references, index terms

Several of the outsourcing endeavors of today will gradually converge to a hybrid outsourcing model that will involve a team spread across three or more strategically-located centers interconnected by Internet technology. White-collar professionals in the US, Australia, and Poland, for example, could each work on a standard 9--5 basis, transfer the activity to a colleague in the next center, thereby enabling work to be performed on a round-the-clock basis. The effective use of sequential work ...

Keywords: Knowledge management, geographic boundaries, global teams, knowledge sharing, outsourcing, temporal boundaries

127 Database principles: A mapping mechanism to support bitmap index and other auxiliary structures on tables stored as primary B^+-trees

Eugene Inseok Chong, Jagannathan Srinivasan, Souripriya Das, Chuck Freiwald, Aravind Yalamanchi, Mahesh Jagannath, Anh-Tuan Tran, Ramkumar Krishnan, Richard Jiang
June 2003 **ACM SIGMOD Record**, Volume 32 Issue 2

Publisher: ACM Press

Full text available: pdf(198.55 KB) Additional Information: full citation, abstract, references

Any auxiliary structure, such as a bitmap or a B^+-tree index, that refers to rows of a table stored as a primary B^+-tree (e.g., *tables with clustered index* in Microsoft SQL Server, or *index-organized tables* in Oracle) by their physical addresses would require updates due to inherent volatility of those addresses. To address this problem, we propose a mapping

mechanism that 1) introduces a single mapping table, with each row holding one key value from the prima ...

128 Industry session 3: database performance and interface: A mapping mechanism to support bitmap index and other auxiliary structures on tables stored as primary B+-trees

Eugene Inseok Chong, Jagannathan Srinivasan, Souripriya Das, Chuck Freiwald, Aravind Yalamanchi, Mahesh Jagannath, Anh-Tuan Tran, Ramkumar Krishnan, Richard Jiang

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management CIKM '02**

Publisher: ACM Press

Full text available: pdf(63.19 KB) Additional Information: full citation, abstract, references, index terms

Any auxiliary structure, such as a bitmap or a B+-tree index, that refers to rows of a table stored as a primary B+-tree (e.g., *tables with clustered index* in Microsoft SQL Server, or *index-organized tables* in Oracle) by their physical addresses would require updates due to inherent volatility of those addresses. To address this problem, we propose a mapping mechanism that 1) introduces a single *mapping table*, with each row holding one key value from th ...

Keywords: bitmap indexes, mapping mechanism, primary B+-trees

129 A plan for producing a conventional Ada library

Marin D. Condic

September 2003 **ACM SIGAda Ada Letters**, Volume XXIII Issue 3

Publisher: ACM Press

Full text available: pdf(294.13 KB) Additional Information: full citation, abstract

There is a general consensus that Ada would benefit from having a library of tools available that would be standard across most or all implementations. This paper discusses how to get a "standard" l ibrary for Ada without impacting the ARM, increasing the leverage available to Ada developers, providing an enhanced product for the Ada compiler vendors, sparking new interest in Ada and perhaps building a financially successful business in the process.

130 Data dissemination and pervasive computing: Semantically driven service interoperability for pervasive computing

Declan O'Sullivan, David Lewis

September 2003 **Proceedings of the 3rd ACM international workshop on Data engineering for wireless and mobile access MobiDe '03**

Publisher: ACM Press

Full text available: pdf(179.45 KB) Additional Information: full citation, abstract, references, citings, index terms

The common vision of pervasive computing environments requires a very large range of devices and software components to interoperate seamlessly. From the assumption that these devices and associated software permeate the fabric of everyday life, a massive increase looms in the number of software developers deploying functionality into pervasive computing environments. This poses a very large interoperability problem for which solutions reliant solely on interoperability standards will not scale. ...

Keywords: DAML-S, pervasive computing, semantic interoperability, service composition, topic maps

131 ACM multimedia art exhibition: Vanishing point

Mauricio Arango
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(207.70 KB) Additional Information: full citation, abstract, references, index terms

Vanishing Point is a presentation of the world as it responds to international newspaper coverage - not a measure of what the world is, but of what is most newsworthy. Consequently, countries that receive less media coverage gradually disappear from view. It consists of an interactive world map connected to a database fed by international news sources, and exists both in the form of a website (http://low-fi.org.uk/vanishingpoint) and as a physical gallery installation.The goal of this pie

Keywords: cartography, disappearance, media coverage, visibility

132 Why complicate things?: introducing programming in high school using Python

Linda Grandell, Mia Peltomäki, Ralph-Johan Back, Tapio Salakoski
January 2006 **Proceedings of the 8th Austalian conference on Computing education - Volume 52 ACE '06**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(307.33 KB) Additional Information: full citation, abstract, references, index terms

Deciding what to teach novices about programming and what programming language to use is a common topic for debate. Should an industry relevant programming language be taught, or should a language designed for teaching novices be used? Typically, these questions are raised at university level, but in this paper we address them from a high school perspective.We present a case study with a twofold goal: (1) examining how programming can be introduced at high school level, and (2) evaluating how su ...

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Result # 1 Relevance:

On Demand Custom Error Pages through Use of MetaSearch Crawler

2005-08-25 IPCOM000127359D En

HTTP 404 or HTTP 500 error messages, among many, are messages that most internet grown to know and hate when using web applications. It is not uncommon to receive e performing tasks in any web application such as a portal application. The problem ...

Result # 2 Relevance:

Effective information collection based on the multi-weight method

2005-05-20 IPCOM000125139D En

Disclosed is an idea to collect information effectively from several search sites by mean weight method. The method collects results from several search sites and sorts them b weight value.

Result # 3 Relevance:

Associative search results history for improved results reproduction

2007-10-17 IPCOM000159316D En

Presented is a method for enhancing the service of a search engine by combining the h search-strings used with the history of sites visited by creating a repository that contai between the two.

Result # 4 Relevance:

Context History based Text Search

2007-06-19 IPCOM000154174D En

Context History based Text Search ABSTRACT Searches performed in a text document a new search query is given, which enforces one to remember the context while perfor searches in the document. Disclosed is a method to enhance the search ...

Result # 5 Relevance:

SYNTACTIC TECHNIQUES IN INFORMATION RETRIEVAL

1960-01-13 IPCOM000128818D En

In this discussion we are ultimately concerned with the problem of developing a fully m information selection and retrieval system. For the immediate purposes of this report, I will be concerned with only a part of the problem -- namely, outlining those ...

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IET JNL	IET Journal or Magazine
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1. **Service-based access to distributed embedded devices through the open service gateway**
Ditze, M.; Kamper, G.; Jahnich, I.; Bernhardi-Grisson, R.;
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6. Language and Linguistics
Research Language and Linguistics at the Questia online library.
Sponsored by: www.questia.com

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Google Help | [Advanced Search] | **Translate** Also search: Gov't. ... **METASEARCH** ENGINE (Search Multiple Engines at Once) ...
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Engineers, Tech Support & Other Computer Experts help online asap!
Sponsored by: www.JustAnswer.com
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Looking for **metasearch format translate** search? We have them.
Sponsored by: www.FindStuff.com
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Metasearch is:. □ Single user query, multi-source search. □ On-demand, user driven, real time. □ All about personal choice. □ Multi-protocol, multi-format ...
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My seriously out-of-date Meta **Search** Engines page is now up to date. ... Big new feature today, the Fagan Finder Translation Wizard goes live in beta status ...
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SES San Jose: Aug. 7-10, 2006 Â· SES Local **Search** Edition - Denver: Sept. ... below: SearchDay (Daily) **Search** Engine Report (Monthly) ...
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Meta **Search** Engine Netfind Page Popularity Positioning ... If you would like to **translate** the I-Search glossary into your mother tongue then please contact ...
www.cadenza.org/search_engine_terms/updates.htm [Found on Google]

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... the first of the **search** engines to **translate** Adobe PDF (portable document format) files into HTML and index them across the ...
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16. Implementing a customised meta-search interface for user query ...
The query-translation problem. A meta-search engine submits queries over. multiple **search** engines. stored in a unified **format** for further process. ...
ieeexplore.ieee.org/iel5/7968/22030/01024655.pdf [Found on Google]

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Some results are very useful for constructing a meta **search** engine. But they do not consider the following problem: The translation of a query will be ...
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WebCrawler Web **Search** Home PageOfficial home of the WebCrawler **metasearch** engine. ... tools: Search, research, reference, look up or ...
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kinds of differences make query translation from a meta-search engine to a and translates the results of the data source into the **format** that can be ...
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Table 1 **Search** Engines with Advanced Features ... power **search** commands that the software will **translate** for each **search** service.
gbr.pepperdine.edu/001/search.html [Found on Ask.com]

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Search Filter: Moderate

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21 - 26 of 26 from All Search Engines (About Results)

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21. Adaptive Web Meta-Search Enhanced by Constraint-based Query ...
input interface construction with the constraints-based query translation method. Our. meta-search engine prototype dynamically generates the query input ...
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If you want to **search** a portion of the page, first click it with the mouse. ... Consider cutting and pasting the same **search** string you used ...
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... pages with Learning **Search** Engine Specific Query Transformations for Question.. ... Learning **Search** Engine Specific Query ...
citeseer.ist.psu.edu/WorldWideWeb/SearchEngines/da...
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SRU specifies a standard query grammar: CQL (Common Query Language).7 This means that the meta-search engine only has to write one translator for all the ...
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Translate Advanced **Search** Settings Maps More ... all **search** engines also. Bookmark Searches. **Metasearch** ALL **search** engines with ...
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[Found on Ask.com]

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